

ABSTRACT

A method and system for inserting an implant, such as vaso-occlusive device, an embolic containment device, or a stent into a vascular space to a vascular site in a body utilizing a lumen-reducing catheter. The method and system can be used to treat aneurysm, tumors and other vascular malformations. A guide is inserted into the vascular space. First and second catheters are inserted into the vascular space along the guide. The first or delivery catheter defines a first cavity, and the second or lumen-reducing catheter defines a second, smaller cavity. The second catheter is inserted within the first catheter. In one embodiment, an implant is advanced together with the first and second catheters to a vascular site. In an alternative embodiment, after the first and second catheters are positioned, the guide and the second catheter are removed from the first cavity, and an implant is inserted through the first cavity. With these configurations, radial movement of the guide is restricted to the smaller, second cavity rather than the larger, first cavity.